

Claims

1. A textile product comprising
a textile substrate having a certain abrasion resistance; and
a three-dimensional pattern applied on the textile substrate, whereby
the three-dimensional pattern covers at least 15% of the area of the textile substrate so that the abrasion resistance of the textile product lies above the abrasion resistance of the textile substrate.
2. A textile product according to claim 1, characterized in that the three-dimensional pattern covers 25% to 50% of the textile substrate.
3. A textile product according to claim 1 or 2, characterized in that the three-dimensional pattern consists of polyurethane, polyvinyl acetate and/or a vinyl acetate copolymer.
4. A textile product according to at least one of claims 1 to 3, characterized in that the mass loss of the textile substrate amounts to more than 0.03 g in an abrasion test after 50.000 Martindale abrasion cycles, and that the corresponding mass loss of the textile product lies below the mass loss of the textile substrate.
5. A textile product according to claim 4, characterized in that the corresponding mass loss of the textile product is less than 0.02 g.

6. A textile product according to at least one of claims 1 to 5, characterized in that the textile substrate shows destruction in an abrasion test after 50.000 Martindale abrasion cycles (DIN EN ISO 12947-2).
7. A textile product according to claim 6, characterized in that the textile product shows no destruction in an abrasion test after 50.000 Martindale abrasion cycles (according to DIN EN ISO 12947-2).
8. A textile product according to at least one of claims 1 to 7, characterized in that the textile substrate shows pilling in an abrasion test after 50.000 Martindale abrasion cycles.
9. A textile product according to claim 8, characterized in that the textile product shows no pilling in an abrasion test after 50.000 Martindale abrasion cycles.
10. A textile product according to one of the previous claims, characterized in that the three-dimensional pattern has a height in the range of 0.1 mm to 5 mm, preferably in the range of 0.3 mm to 3 mm and most preferably in the range of 1 to 2 mm.
11. A textile product according to at least one of the previous claims, characterized in that the three-dimensional pattern has a uniform or non-uniform arrangement of identical or different geometrical shapes.
12. A textile product according to claim 11, characterized in that the geometrical shapes are dots having the same

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or a different diameter in the range of 0.2 mm to 10.0 mm.

13. A textile product according to claim 11 or 12, characterized in that the distance of the central points of the geometrical shapes relative to one another corresponds to between 2 mm and 5 mm.
14. A textile product according to one of the previous claims 11 to 13, characterized in that the distance between two dots (dot edges) amounts to between 50% and 200% of the dot diameter.
15. A textile product according to one of claim 1 to 10, characterized in that the three-dimensional pattern has a continuous structure.
16. A textile product according to at least one of the previous claims, characterized in that the three-dimensional pattern regenerates to return to its original state after deformation due to the application of a force corresponding to 480 kg/m².
17. A textile product according to at least one of the previous claims, characterized in that the textile substrate has a basis weight of 50g/m² to 500g/m², preferably of 100g/m² to 450g/m².
18. A textile product according to at least one of the previous claims, characterized in that the textile substrate is a woven fabric, warp-knitted fabric, weft-knitted fabric, non-woven or Raschel good.

19. A textile product according to claim 18, characterized in that the textile substrate is flat.
20. A textile product according to any one of claims 1 to 17, characterized in that the textile substrate is a woven fabric, warp-knitted fabric, weft-knitted fabric, non-woven or Raschel good which has a polymer coating.
21. A textile product according to claim 20, characterized in that the polymer coating is a coating on the basis of polyurethane.
22. A process for the production of a textile product having an improved abrasion resistance, comprising the following steps of
 - providing a textile substrate web of a certain abrasion resistance; and
 - applying a three-dimensional pattern on the textile substrate web by covering at least 15% of the area of the textile substrate web, so that the abrasion resistance of the textile product is above that of the textile substrate web.
23. A process according to claim 22, characterized in that the three-dimensional pattern covers at least 25% to 50% of the textile substrate.
24. A process according to claim 22 or 23, characterized in that the three-dimensional pattern is applied by means of applying a polyurethane, polyvinyl acetate and/or vinyl acetate copolymer mass.
25. A process according to claim 24, characterized in that the mass has free-flowing, thixotopie qualities.

26. A process according to at least one of claims 22 to 25, characterized in that the three-dimensional pattern is applied by means of a plastic stencil.
27. A process according to claim 26, characterized in that the stencil has a hole pattern with holes of the same or a different diameter of between 0.5 mm and 5 mm at a height of between 0.5 mm and 5 mm.
28. A process according to one of claims 26 or 27, characterized in that the stencil consists of polyamide or polyester.
29. A process according to at least one of claim 24 to 28, characterized in that the mass has a quiescent viscosity of between 120 to 300 poise.
30. A process according to at least one of claims 24 to 29, characterized in that the mass has a solids content in the range of 65% to 75%.
31. A process according to at least one of claims 22 to 30, characterized in that the process additionally comprises drying of the textile substrate web provided with the three-dimensional pattern at a temperature of between 80 to 180° C.
32. A process according to one of claims 22 to 31, characterized in that the process additionally comprises tentering of the textile substrate web on a tenter frame at a temperature of between 140 to 190 °C as well as cutting of the textile substrate web to its final size.

33. Use of a textile product according to claims 1 to 21 in the interior space or trunk of a motor vehicle, or as seat covers, in particular as seat middle web or seat sides.